

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) A method for production and application of a heating elements for heating in vehicles, said heating element consisting of a heating wire ~~(1)~~ defining at least one electric heating loop extending, ~~in its operating position,~~ in a predetermined pattern, ~~characterised by~~ said method comprising the steps of:

positioning the heating wire ~~(1)~~ onto at least one side ~~(7)~~ of a temporary carrier ~~(4)~~,

applying an adhesive ~~(8)~~ over said carrier, at least over ~~those~~ areas where the heating wire is lying on the carrier, and over the heating wire, causing the heating wire to adhere to the surface of the carrier,

transporting the carrier ~~(4)~~ with the heating wire to a final substrate, ~~which the heating element is to be in close contact with,~~ wherein the heating wire is adjacent to the substrate,

pressing the heating wire against the substrate,

heating and melting the adhesive ~~so as to make the wire adhere to the substrate,~~ and in order to separate the heating wire from the carrier leaving the heating wire adhered to the substrate, and

removing the carrier, so that the heating wire is released from the carrier and adheres to the substrate, to form the

heating element for heating in the vehicle.

2. (currently amended) The method according to claim 1, ~~characterised by~~wherein the adhesive ~~being is~~ applied through spraying across the heating wire and the carrier surface on ~~that side thereof~~ the at least one side where the heating wire ~~(1)~~ is ~~located~~positioned.

3. (currently amended) The method according to claim 2, ~~characterised by~~wherein the carrier ~~absorbing~~ absorbs the adhesive ~~(8)~~ so that ~~the carrier~~ a surface of the carrier ~~(7)~~ will only obtain negligible adhesive ability.

4. (currently amended) The method according to claim 1 wherein the adhesive is a thermogluue, ~~characterised by the thermo-glue being~~ heated and maintained at a temperature above the melting point of the thermo-glue when the thermo-glue is applied onto the heating wire ~~(1)~~ and the carrier ~~(4)~~ as well as when the wires have been applied onto the substrate ~~(13)~~.

5. (currently amended) The method according to claim 4, ~~characterised by said~~wherein the heating ~~being is~~ obtained through the supply of electric current through the heating wire ~~(1)~~.

6. (currently amended) The method according to claim 5, ~~characterised by~~ wherein the supply of electric current ~~being is~~ achieved through connecting the heating wire ~~(1)~~ to an electric power source via one or more electrical connector means ~~(31)~~, intended for connection of the heating element to the vehicle voltage source when in ~~the~~ a final operating position in the vehicle.